

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
3 March 2005 (03.03.2005)

PCT

(10) International Publication Number
WO 2005/019330 A3

(51) International Patent Classification⁷: **C08K 13/02**,
3/22 // (C08K 13/02, 5:3492, 3:00)

(21) International Application Number:
PCT/EP2004/008676

(22) International Filing Date: 3 August 2004 (03.08.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
MI2003A001663 25 August 2003 (25.08.2003) IT

CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (*unless otherwise indicated, for every
kind of regional protection available*): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (*for all designated States except US*): DIAP
S.R.L. [IT/IT]; Via Vepre, I-60043 Cerreto d'Esi (IT).

Published:

- with international search report
- with amended claims

(72) Inventor; and

(75) Inventor/Applicant (*for US only*): OTTAVIANI, Gino
[IT/IT]; Diap S.r.l., Via Vepre, I-60043 Cerreto d'Esi (IT).

(88) Date of publication of the international search report:
23 June 2005

(74) Agents: ZANOLI, Enrico et al.; Zanoli & Giavarini S.r.l.,
Viale Bianca Maria, 35, I-20122 Milano (IT).

Date of publication of the amended claims: 11 August 2005

(81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,

*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

(54) Title: A FLAME-RETARDANT POLYMERIC COMPOSITION WITH LOW HALOGEN CONTENT, A CONCENTRATE
OF SAID COMPOSITION, AND A METHOD FOR PREPARING SAID COMPOSITION

(57) Abstract: A flame-retardant polymeric composition comprising (i) a polymer; (ii) a triazine or a mixture of halogenated or non-halogenated triazines; (iii) a bismuth compound of formula Bi₂A_n, where A is X, O, CO₂, O₂CO₂; and (iv) a compound chosen between red phosphorus, a phosphorous compound or an organic compound capable of forming free radicals, in which the maximum content of halogen on the total of the components from (i) to (iv) in said composition is 1 wt%.



WO 2005/019330 A3